

## **IN THE CLAIMS**

Please amend the claims as indicated:

1. Canceled

1 2. In a method for determining a fracture pressure gradient of a subsurface region of  
2 earth formations comprising:

3 (a) obtaining seismic survey information about the subsurface region;

4 (b) identifying a plurality of interpreted seismic horizons of interest from the  
5 obtained survey information;

6 (c) obtaining estimated seismic velocities corresponding to at least one  
7 interval between at least one pair of said plurality of seismic horizons;

8 (d) calibrating the estimated seismic velocities to the parameter of interest

9 (e) using the results of said calibration and the obtained seismic velocities to  
10 obtain said fracture pressure gradient at any location within the seismic  
11 survey;

12 an improvement comprising displaying the parameter of interest on one of:

13 (i) P- or S-wave velocity displays;

14 (ii) P-wave impedance displays;

15 (iii) S-wave impedance displays;

16 (iv) P-wave frequency attribute displays;

17 (v) S-wave frequency attribute displays;

18 (vi) P-wave phase attribute displays;

19 (vii) S-wave phase attribute displays;

- 20 (viii) density displays;
  - 21 (ix) P-wave amplitude attribute displays;
  - 22 (x) S-wave amplitude attribute displays.
- 3. Canceled
  - 4. Canceled.